EXECUTIVE ORDER A-021-0411 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003:

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE							
		SIZES (L)	-	PROCEDURE	CLASS 2	ECS & SPECIAL FEATURES 3						
2006	6CEXH0359BAF	5.9	Diesel	Diesel	MHDD	PCM, EGR, DDI, TC, CAC						
ENGINE (L)		ENGINE I	MODELS / CODES (r	ated power, in hp)							
5.9	ISB 325 / 0916;FR91922 (325), ISB 275 / 8135;FR91053 (275), ISB 275 / 0666;FR91913 (275), ISB 260 / 8135;FR91054 (257),ISB 260 / 8135;FR91045 (260), ISB 245 / 8135;FR91046 (245), ISB 245 / 0666;FR91912 (245)											
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| not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; | not applicable; Kw=kilowatt; | not applicable; Kw=kilowatt; | CNG/I.NG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; | L/WH HDD=light/medium/heavy heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; UB=urban bus; HDO=heavy-duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; UB=urban bus; HDO=heavy duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; UB=urban bus; HDO=heavy-duty Otto; | L/WH HDD=light/medium/heavy-duty diesei; L/WH HDD=light/medium/heavy-duty d

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.1 or 13 CCR 1956.8 are in parentheses.)

NMHC		NOx		NMHC+NOx		со		PM		нсно	
FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO		EURO
0.5	0.5	•	•	2.5	2.5	15.5	15.5	0.10		•	1
•	*	•		*	•	•	•	*		•	
0.1	0.03	*	•	2.2	1.9	1.1	0.5	0.09	0.08		
0.625			•	3.	125					······································	*
	0.5 *	FTP EURO 0.5 0.5	FTP EURO FTP 0.5 0.5 * 0.1 0.03 *	FTP EURO FTP EURO 0.5 0.5	FTP EURO FTP EURO FTP 0.5 0.5 * * 2.5 * * * * * 0.1 0.03 * * 2.2	FTP EURO FTP EURO FTP EURO 0.5 0.5 * * 2.5 2.5 * * * * * * 0.1 0.03 * * 2.2 1.9	FTP EURO FTP EURO FTP EURO FTP 0.5 0.5 * * 2.5 2.5 15.5 * * * * * * * 0.1 0.03 * * 2.2 1.9 1.1	FTP EURO FTP EURO FTP EURO FTP EURO 0.5 0.5 * * 2.5 2.5 15.5 15.5 * * * * * * * * 0.1 0.03 * * 2.2 1.9 1.1 0.5	FTP EURO FTP EURO FTP EURO FTP 0.5 0.5	FTP EURO FTP EURO FTP EURO FTP EURO FTP EURO 0.5 0.5	FTP EURO FTP EURO FTP EURO FTP EURO FTP 0.5 0.5

a g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ______ day of December 2005.

Raphael Susnovita

Mobile Source Operations Division